UTILITY **PATENT APPLICATION TRANSMITTAL**

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Attor	ney Docket No.	8021-225 (SS-18860-US)			
First	Inventor	Kyo-Min SOHN			
Title	INTEGRATED	CIRCUIT HAVING A			

(Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No.

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Title	INTEGRATED C	IRCUIT HAVING A
Evara	ss Mail Label No	EV480875063US

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patient application contents. ADDRESS TO: Assistant Commissioner for Patients Box Patient Application Box Patient Application Box Patient Application Computer Program (Appendix) Computer Readable Form (CRF) Statements Verifying identity of above copies Accompany Interest Verifying identity of above copies Computer Readable Form (CRF) Statements Verifying identity of above copies Computer Readable Form (CRF) Statements Verifying identity of above copies Accompany Interest Verifying identity of above copies Computer Verify identity of above copies Computer Verifying identity o								
Fee Transmittal Form (e.g., PTO/SB/11) Proceedings of the Computer Program (Appendix) Process of CFR 1.23 Process Applicant claims small entity status. See 37 CFR 1.23 Process Reference to Sequence Issing, a lable, or a computer program issing appendix experiment responsibility at lable, or a computer program issing appendix experiment responsibility at lable, or a computer program issing appendix experiment responsibility at lable, or a computer program issing appendix experiment responsibility of the Invention experiment of the Invention experiment of the Disclosure experiment of the Disclosure experiment of the Disclosure experiment experiment in the process of	APPLIC	ATION ELEMENTS	ADD	DRESS TO: Box	Patent Applicat	tion		
Computer Program (Appendix)	See MPEP chapter 600 cor	ncerning utility patent application conte	nts.	Was	shington, DC 20)231		
Specification Total Pages 30 Descriptive title of the invention Descriptive title of the invention Cross Reference to Related Applications Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Description of the Drawings (if filed) Detailed Description Detailed Description Claim(s) Datailed Description Claim(s) Datailed Description Claim(s) Datailed Description Claim(s) Datailed Description Claim(s) Claim(s) Detailed Description Claim(s) Detailed Description Claim(s) Detailed Description Claim(s) C	1. Submit an original and Applicant claims	a duplicate for fee processing) small entity status. 7.	8. Nu	Computer Program cleotide and/or Amino A	(<i>Appendix</i>) cid Sequence S			
Descriptive title of the invention Cross Reference to Related Applications Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Description of the Drawings (if filed) Detailed Description of the Drawings (if filed) Detailed Description Claim(s) Abstract of the Disclosure Total Pages Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) Copy from a prior application, see 37 CFR 1.63(d)(2) and 1.33(b). Bif a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet. See 37 CFR 1.76: Continuation Data Sheet under 37 CFR 1.76:		[, 0, 0, , 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,						
- Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Clairn(s) - Clairn(s) - Abstract of the Disclosure 4.			- (
Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Summary of the Invention Claim(s) Claim(s) Detailed Description Claim(s) Claim(s) Claim(s) Charles Secretary Abstract of the Disclosure 4. □ Drawing(s) (35 U.S.C. 113) { Total Sheets 9 } Drawing(s) (35 U.S.C. 113) { Total Pages 2 } Drawing(s) (35 U.S.C. 113) { Total	- Cross Referen	ce to Related Applications	J.	_	-	es); or		
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- Detailed Description - Claim(s) - Claim(s) - Abstract of the Disclosure 4.	- Brief Summar - Brief Descripti	y of the Invention on of the Drawings (if filed)		ACCOMPANYING.	APPLICATION	ON PARTS		
- Abstract of the Disclosure 4.	- Detailed Desc		9.	✓ Assignment Papers	(cover sheet 8	document(s))		
4.	· · · · · · · · · · · · · · · · · · ·	e Disclosure	10.					
S. Oath or Declaration a. Newly executed (original or copy) a. Newly executed (original or copy) b. Oopy from a prior application (37 CFR 1.63 (d)) c. Opy from a prior application (37 CFR 1.63 (d)) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76 17. Other: (2) Credit Card Payment Forms 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Data Sheet under 37 CFR 1.76: of prior application No. DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label (Insent@ustomerNoscofAttechbaycode)label/bare) Or Correspondence address below Name Frank Chau F. CHAU & ASSOCIATES, LLP 1900 Hempstead Tumpike, Suite 501	Drawing(s) (35	U.S.C. 113) Total Sheets 9] 11.[• ,	•		
a.			1 12.	I I	u			
b. Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation information: Examiner Group Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an eath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label (Inserticus Customer No. or Attach Dearced Itabel Ibar) Frank Chau Frank Cha	[2]		13.	1 — ` '				
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No: Prior application information: Examiner Group Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Frank Chau	Copy from	a prior application (37 CFR 1.63 (d))	14.					
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Application Data Sheet. See 37 CFR 1.76 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation	named ir	(b)(2)(B)(i). Applica						
or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No::/ Prior application information: Examiner Group Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label (Insert) Customer No. or Attach Darcode (label/here) Frank Chau F. CHAU & ASSOCIATES, LLP 1900 Hempstead Turnpike, Suite 501	6. Application Dat	a Sheet. See 37 CFR 1.76	17. [<u> </u>	lit Card Paym	ent Forms		
Continuation Divisional Continuation-in-part (CIP) of prior application No.:/								
Prior application information: Examiner			215					
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Ber Code Label (Insert Customer No. or Attach bear code label/hero) Frank Chau F. CHAU & ASSOCIATES, LLP 1900 Hempstead Turnpike, Suite 501		-	CIP)	,	'			
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19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label (Insert) Customer No. cr/Attachbar code (label) for	Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.							
Customer Number or Bar Code Label (Insert) Customer No. con Attach Dan code (label/here) Or Correspondence address below Frank Chau F. CHAU & ASSOCIATES, LLP 1900 Hempstead Turnpike, Suite 501								
Name Frank Chau F. CHAU & ASSOCIATES, LLP 1900 Hempstead Turnpike, Suite 501	19. CUKKESPUNDENCE ADDRESS							
F. CHAU & ASSOCIATES, LLP Address 1900 Hempstead Turnpike, Suite 501	Customer Number or Bar	Code Label (Insert)@ustomerNo.cr/Atta	රෝචනැවෙම (මෙම්) ර		Correspondence a	ddress below		
Address 1900 Hempstead Turnpike, Suite 501	Name	Frank Chau				·		
71007000		F. CHAU & ASSOCIATES, LL	P					
	Address	1900 Hempstead Turnpike, Suite	501					
City East Meadow State New Fork Zip Code 11534	City	East Meadow	State	New York	Zip Code	11554		
Country U.S.A Telephone (516) 357-0091 Fax (516) 357-0092	Country	U.S.A	Telephone	(516) 357-0091	Fax	(516) 357-0092		
Name (Print/Type) Richard D. Ratchford Jr. Registration No. (Attorney/Agent) 53,865	Name (Print/Type)	Richard D. Ratchford Jr.	Reg	istration No. (Attorney	(/Agent) 53,8	65		
	Signature	Richard D. R.	TIL	()	Date 3	1 1 1		
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PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Complete if Known

Application Number

	App	Application Number			· · · · · ·			
for FY 2004				Filing Date March 31, 2004				
Effective 10/01/2003. Patent fees are subject to annual revision.				First Named Inventor Ky		Kyo-Min SOHN	yo-Min SOHN	
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Applicant claims	small entity status.	T	Art l	Jnit				
TOTAL AMOUNT C	OF PAYMENT	(\$) 810.00	Atto	rney Doo	cket No.	8021-225 (SS-188	360-US)	
METHOD OF	PAYMENT (check	all that apply)			FEE CA	ALCULATION (conf	tinued)	
Check Credit	card Money Order	Other None	3. ADDIT					
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SUBTOTAL (2) (\$) 0 Other fee (specify)								
*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00								
SUBMITTED BY						(Complete (i	f applicable))	
Name (Print/Type) Richard D. Ratchford Jr. Registration No. (Attorney/Agent). 53,865 Telepho					Telephone	516-357-0091		
Signature	Vict. D	27/2	X	TIT MOTH	-	Date	3 31	104
- 3					-	rd Information about		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PATENT

Atty. Docket No. <u>8021-225 (SS-18860-US)</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

APPLICATION FEE TRANSMITTAL

Sir:								
Transmitted her	rewith for filing is the patent application of							
<pre>Inventor(s):</pre>	Kyo-Min SOHN, Young-Ho SUH							
For:	INTEGRATED CIRCUIT HAVING A MEMORY CELL ARRAY CAPABLE OF SIMULTANEOUSLY PERFORMING A DATA READ							
	OPERATION AND A DATA WRITE OPERATION							
This application	This application is a:							
[X] New Application								
[] Continuation								
[] Continuation-In-Part (CIP)								
[] Divisional								
of co-pending U.S. application Serial No filed on								

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this Application transmittal and the documents referred to as enclosed are being deposited with the United States Postal Service on this date $\underline{\text{March 31, 2004}}$ in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number $\underline{\text{EV480875063US}}$ addressed to: Commissioner for Patents, Alexandria, VA 22313.

Richard D. Ratchford Jr.
(Type or print name of person mailing paper)

(Signature of person mailing paper)

Fuctosed	are:						
[X] <u>24</u>	page(s) of specification						
[X] <u>1</u>	page(s) of Abstract						
[X] <u>5</u>	page(s) of claims						
[X] <u>9</u>	sheets of drawings [X] forma	l [] informal					
[X] <u>2</u>	page(s) of Declaration and Pow	wer of Attorney					
[X] An As Ltd.	signment of the invention to: Samsu	ng Electronics Co.,					
[]	This application claims the benefit \$119(e) of U.S. Provisional Application						
	APPLICATION NO(S).:	FILING DATE					
[X]	Priority under Title 35 United Statclaimed from:	tes Code, § 119 is					
<u>Coun</u>	try Appln. No.	<u>Filed</u>					
Kore	a 2003-23733	15 April 2003					
	[X] Certified copy of which:						
	[X] is enclosed						
	[] will follow.						
Additiona	l papers enclosed:						
[]	[] Preliminary Amendment The fees to be charged are to be based on the number of claims remaining as a result of the attached Preliminary Amendment.						
[]	[] Information Disclosure Statement						
[]	Form PTO-1449						
ſ 1	Other						

Fee Calculation (37 C.F.R. §1.16)

For	Numbe Filed			Number Extra		Rate		Basic Fee \$ 770.00
Total								
Claims*	20	-20	=	0		x \$ 18.00		\$ 0
Independent								
Claims	2	-3	=	0		x \$ 86.00		\$ 0
Multiple	[]	yes		Add'l.	Fee	\$290.00		\$
Dependent		-						
Claims	[X]	no		Add'l.	Fee	None	=	\$

TOTAL \$ 770.00

- [] Applicant Claims Small Entity Status Under 37 C.F.R. § 1.27. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith § .00.
- [X] Please charge fee of \$40.00 for recording the attached assignment by Credit Card Payment Form PRO-2038 enclosed herewith.
- [X] Please charge fee of \$770.00 to cover the filing fee by Credit Card Payment Form PTO-2038 enclosed herewith.
- [] Charge fee to Deposit Account No. 50-0679. Order No. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

 $^{^\}star$ Includes all independent and single dependent claims and all claims referred to in multiple claims. See 37 C.F.R. § 1.75(c).

Please charge any deficiency as well as any other fee(s) [X] which may become due under 37 C.F.R. § 1.16 and/or 1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 50-0679. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Relate Back - 35 U.S.C. § 120

Amend the specification by inserting after the Title the sentence:

--This is a [] continuation [] continuation-in-part [] divisional of copending application Serial No. _____ filed on ______, the disclosure of which in its entirety is incorporated-by-reference herein.--

Date: March 31, 2004 Rich

SIGNATURE OF ATTORNEY

Richard D. Ratchford Jr.

Reg. No. <u>53,865</u>

F. CHAU & ASSOCIATES, LLC 1900 Hempstead Turnpike, Suite 501 East Meadow, New York 11554 Tel. No. (516) 357-0091 (516) 357-0092 Fax.